

U.S. Patent Application No. 09/880,654
Amendment F (After Final)
July 18, 2005

Claim Listing

Claims 1-5 (canceled)

6. (currently amended) The method of claim ~~[[5]]~~ 16 wherein the biotin selective protein is avidin or streptavidin ; ~~wherein the binding radical is biotin; and wherein the fluorescent radical is 5-([4,6-dichlorotriazin-2-yl]amino)fluorescein.~~

7. (currently amended) The method of claim ~~[[1]]~~ 16 wherein the protease is a viral protease ~~proteases are viral proteases.~~

8. (previously presented) The method of claim 7 wherein the ~~proteases are~~ protease is selected from the group consisting of a human immunodeficiency virus protease ~~proteases~~ and a herpes virus protease ~~proteases~~.

9. (currently amended) The method of claim 8 wherein the herpes virus protease is ~~viruses proteases are~~ selected from the group consisting of a human cytomegalovirus protease ~~proteases~~, a mouse cytomegalovirus protease ~~proteases~~, a herpes simplex virus subtype 1 protease ~~proteases~~ and a herpes simplex virus subtype 2 protease ~~proteases~~.

10. (currently amended) ~~[[The]]~~ A method of ~~claim 2 wherein the substrates are for~~ determining the activity of a protease, said method comprising

a) incubating a mixture of said protease and a substrate capable of being bound to an anchor and selected from the group consisting of Biotin- γ -Abu-Gly-Val-Val-Asn-Ala-Ser-Ala-Arg-Leu-Lys-5-([4,6-dichlorotriazin-2-yl]amino)fluorescein-NH₂ [SEQ ID NO: 3] and biotin- γ -Abu-Ser-Gly-Asn-Tyr-Pro-Ile-Val-Gln-Lys-5-([4,6-dichlorotriazin-2-yl]amino)fluorescein-NH₂ [SEQ ID NO: 4];

b) binding the substrate to the anchor;

c) measuring the fluorescence polarization of the mixture; and

d) correlating the measured fluorescence polarization to protease activity.

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Claims 11-15 (canceled)

16. (previously presented) A method for determining the activity of a protease, said method comprising

- a) incubating a mixture of said protease and a substrate selected from the group consisting of biotin- γ -Abu-Gly-Val-Val-Asn-Ala-Ser-Ala-Arg-Leu-Lys-5-([4,6-dichlorotriazin-2-yl]amino)fluorescein-NH₂ [SEQ ID NO: 3] and biotin- γ -Abu-Ser-Gly-Asn-Tyr-Pro-Ile-Val-Gln-Lys-5-([4,6-dichlorotriazin-2-yl]amino)fluorescein-NH₂ [SEQ ID NO: 4];
- b) binding the substrate to an anchor comprising a biotin selective protein;
- c) measuring the fluorescence polarization of the mixture; and
- d) correlating the measured fluorescence polarization to protease activity.

17. (new) The method of claim 10 wherein the protease is a viral protease.

18. (new) The method of claim 17 wherein the protease is selected from the group consisting of a human immunodeficiency virus protease and a herpes virus protease.

19. (new) The method of claim 18 wherein the herpes virus protease is selected from the group consisting of a human cytomegalovirus protease, a mouse cytomegalovirus protease, a herpes simplex virus subtype 1 protease and a herpes simplex virus subtype 2 protease.